

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 0353086-4503	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/JP2004/004177	International filing date (day/month/year) 25/03/2004	(Earliest) Priority Date (day/month/year)
Applicant  FUJITSU LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 6

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/004177

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04B10/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/081292 A1 (NISHIMOTO HIROSHI ET AL) 1 May 2003 (2003-05-01) Polarization compensating system that takes into account the history of control data in a feedback loop. page 1, paragraph 13 - page 2, paragraph 15; figure 2	1, 4-10, 14, 15
A	page 3, paragraph 43 - page 4, paragraph 62	2, 3, 11-13, 16-18
A	US 2003/086144 A1 (FINI JOHN M ET AL) 8 May 2003 (2003-05-08) Polarization mode dispersion compensator with a polarization transformer and a delay module. page 2, paragraph 9; figure 9 page 8, paragraph 97	1-18



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

5 August 2004

Date of mailing of the international search report

03/12/2004

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/004177

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 2003/095313 A1 (WEIN STEVEN J ET AL) 22 May 2003 (2003-05-22) Polarization mode dispersion (PMD) compensation with two delay elements and polarization maintaining fibers (PMF). page 2, paragraph 14 - page 2, paragraph 25; figure 4</p> <p>-----</p>	1-18

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/004177

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2003081292	A1	01-05-2003	JP	2003143074 A		16-05-2003
US 2003086144	A1	08-05-2003	US	6567167 B1		20-05-2003
			WO	0161385 A2		23-08-2001
US 2003095313	A1	22-05-2003	CA	2461889 A1		03-04-2003
			EP	1430625 A2		23-06-2004
			WO	03028254 A2		03-04-2003